

MANUFACTURING ENGINEERING BRANCH

SEVENTH SEMESTER-(REGULATIONS 2004)

MN 472 VALUE ENGINEERING AND RE-ENGINEERING

Duration: 3Hours

Maximum : 100 Marks

Answer all the questions

Part-A

(10 X 2 = 20 Marks)

1. Define value.
2. What are the benefits of value engineering?
3. Mention the essential qualities of a good team leader.
4. List 3 basic components necessary for creativity in an individual.
5. Write short notes on idea listing.
6. What are the key questions to be answered in a function phase?
7. Explain the role of engineers in re-engineering.
8. Mention the steps involved in process improvement?
9. What is work flow analysis?
10. State the 80-20 rule.

Part-B

(5 X 16 = 80 Marks)

11. Explain the possible reasons for poor value of products. (16)
- 12.a. Explain various phases of value engineering with suitable examples. (16)
(Or)
- b. Explain with examples the 16 ways of solving problems creatively. (16)
- 13.a. Explain the guidelines for collection of various types of information in information phase of a value engineering study. (10)
- ii. What are the key questions to be answered in information phase of VE study? (6)
(Or)
- b.i. Give the complete guidelines for making oral presentation in the implementation phase of VE. (10)
- ii. Explain the objectives and importance of auditing. (6)
- 14.a.i. Explain the common steps in performing BPR study. (8)
- ii. Explain the steps involved in the sprucing up of workforce. (8)
(Or)
- b.i. Write detailed notes on PMI leadership expectations. (8)
- ii. Explain the Production and service improvement model with an example. (8)
- 15.a.i. Explain the nominal group technique with examples and sketches. (8)
- ii. Explain Ishikawa analysis with an example. (8)
(Or)
- b.i. Explain how a successful team is built and nurtured. (10)
- ii. What are the roadblocks of BPR implementation procedure. (6)